

# NASA SBIR/STTR Technologies



**Proposal No. - Title of Proposal**

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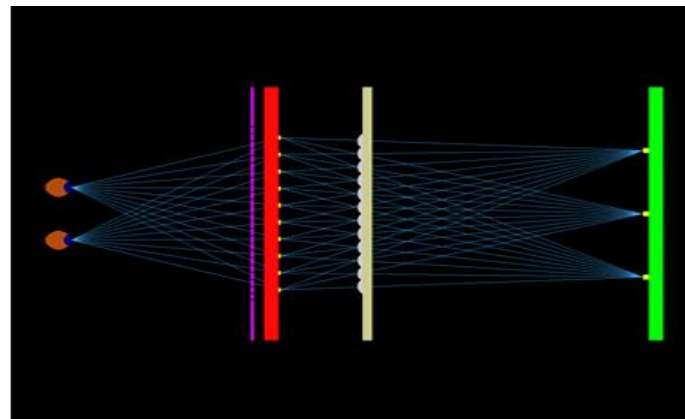
## **Identification and Significance of Innovation**

NASA and US Air Force studies indicate 3D will improve pilot situation awareness and interpretation of the cluttered information that is found on cockpit displays.

A high resolution glasses free 3D display potentially has wide application for improved pilot situation awareness in a wide variety of aircraft.

DTI's high resolution 3D technology represents a quantum leap forward in glasses free 3D display – full resolution, no artifacts, Freedom of head movement.

Expected TRL Range at the end of Contract: 4



## **Technical Objectives and Work Plan**

The technical objectives centered around identifying a specific cockpit to develop toward and test in during Phase II, identifying cockpit display requirements, and determining how DTI's technology can be adapted to them.

Determine how to fit DTI's unique backlight based 3D technology into the display volume.

Determine requirements for the LCD and other components and determine whether key components can meet them.

Identify the computer and software environments used and how to adapt software to display 3D images on DTI displays.

## **NASA and Non-NASA Applications**

Aircraft and spacecraft cockpit displays, ground, air (refueling) and space based telerobotic operation.

Boeing will partner with DTI in Phase II.

Automotive displays (interest from potential customer).

Countertop point of sale (licensing interest from potential customer).

Desktop monitors for scientific visualization (NASA interest).

Medical (especially stereo endoscope and robotic surgery).

Consumer game displays.

Consumer Television

## **Firm Contacts**

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**NON-PROPRIETARY DATA**